Ahmad Raaiyan

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WORK EXPERIENCE

Linux Infrastructure Administrator (Student) — College Station, TX
Texas A&M College of Engineering, College of Arts and Sciences — March 2024 - Present

- Manage a mixed environment of Ubuntu and Red Hat Enterprise Linux (RHEL) servers/clusters and workstations, ensuring maximum availability, performance, and security across a multitude of physical and logical scenarios.
- Leverage tools such as Chef, Ansible, and shell scripting for configuration management and automation, achieving a significant reduction in deployment times, errors, and manual intervention needed from the team.
- Conduct regular system audits and updates to ensure compliance with industry standards and security protocols.
- Collaborate primarily with researchers to meet their hardware and software needs in the most cost and time efficient manner, while staying compliant with security teams and other management teams within the organization.
- Conduct maintenance and troubleshooting on enterprise server hardware/HPCs housed in state of the art data centers.

Systems Administrator - Student Intern — College Station, TX
Texas A&M Division of Student Affairs — June 2023 - March 2024

- Managed camera servers with approximately 1000 endpoints, contributing to high reliability and performance.
- Increased operational efficiency and reduced manual workload for our team through the use of PowerShell scripting and setting up various SCCM/Group Policy deployments.
- Integrated MacOS/iOS devices into a previously Windows environment using JAMF and ASM (Apple School Manager).
- Resolved various network related issues in critical environments such as Student Health Services.

Student Technician — College Station, TX
Texas A&M Division of Student Affairs — Feb 2022 - June 2023

- Diagnosed and solved hardware/software issues with Windows/Mac workstations, imaging and deploying them as well.
- Worked with customers and other IT departments to complete large hardware deployments in a timely manner.

PROJECTS

Drawers
Generates Spotify playlists based on a given prompt but with an emphasis on using songs that the user is familiar with.

- Technologies used: Javascript (React frontend), Node (Express server), Python, Spotify/OpenAI API's, PostgreSQL

termBuddy
LLM wrapper to provide quick access in a terminal environment, leveraging the OpenAI Assistants API to improve output and make tool calls.

- Technologies used: Python, bash

Web Crawler
Web Client made from scratch using C++ and the WinSock library, creating HTTP requests for various use cases, performing DNS lookups, then elegantly parsing/outputting response packets with minimal memory usage and maximal performance.

- Originally created as part of CSCE463 coursework with Dr. Dmitri Loguinov, with added functionality

EDUCATION

Texas A&M University — College Station, TX
BS, Computer Science — 2021 - expected Spring 2025

ADDITIONAL

Technical Skills: Linux management, Virtualization, Cloud Services (AWS, Azure), Active Directory and SCCM management, System Monitoring (Nagios, Chef, Zabbix, and others), SQL Database Design and Implementation, Advanced Python Scripting, Shell Scripting (bash/PowerShell), Javascript & various frameworks for both server side and frontend, C/C++
Certifications & Training: CCNA R&S (Cisco Certified Network Associate, Routing & Switching)